

I CLAIM:

1. A bicycle wheel rim for mounting a plurality of spokes thereon, comprising:

an annular rim body including left and right annular
5 tire retaining walls adapted for retaining a bicycle tire therebetween, and an annular spoke mounting wall connected to said tire retaining walls and formed with a plurality of spoke fastening holes therethrough for mounting of the spokes thereon,

10 each of said tire retaining walls having an inner edge proximate to a central axis of said rim body, an outer edge distal from said central axis of said rim body, and an outer lateral surface that extends between said inner and outer edges, that faces away from the
15 other of said tire retaining walls, and that lies on a first plane,

said spoke mounting wall having left and right edges, each of which is connected to said inner edge of a respective one of said tire retaining walls, and
20 a radial inner surface that extends between said left and right edges, that faces toward said central axis of said rim body, and that lies on a second plane; and

left and right annular corner reinforcing members, each of which is formed integrally with said rim body
25 at a junction of a corresponding one of said left and right edges of said spoke mounting wall with said inner edge of the respective one of said tire retaining walls,

each of said corner reinforcing members extending laterally outward relative to the first plane of said outer lateral surface of the respective one of said tire retaining walls, and further extending radially inward
5 relative to the second plane of said radial inner surface of said spoke mounting wall.

2. The bicycle wheel rim as claimed in Claim 1, wherein each of said corner reinforcing members extends along a respective conical plane that forms a first angle with
10 the first plane of said outer lateral surface of the respective one of said tire retaining walls, and that further forms a second angle with the second plane of said radial inner surface of said spoke mounting wall, each of said first and second angles ranging from 90
15 to 180 degrees.

3. The bicycle wheel rim as claimed in Claim 1, wherein:
each of said tire retaining walls further has an inner lateral surface that extends between said inner and outer edges and that faces toward the other of said tire
20 retaining walls;

said spoke mounting wall further having a radial outer surface that extends between said left and right edges and that faces away from said central axis of said rim body;

25 said rim body further including left and right annular hole-confining walls, each of which extends from said inner lateral surface of a respective one of said tire

retaining walls to said radial outer surface of said spoke mounting wall, each of said hole-confining walls cooperating with the respective one of said tire retaining walls and said spoke mounting wall to confine a pin-receiving hole.

4. The bicycle wheel rim as claimed in Claim 1, wherein:

each of said tire retaining walls further has an inner lateral surface that extends between said inner and outer edges and that faces toward the other of said tire retaining walls;

said rim body further including an annular bridging wall surrounding said spoke mounting wall and extending between said inner lateral surfaces of said tire retaining walls.

5. The bicycle wheel rim as claimed in Claim 1, wherein each of said corner reinforcing members has a rounded cross-section.

6. The bicycle wheel rim as claimed in Claim 1, wherein each of said corner reinforcing members has a distal end remote from said rim body, a planar first surface that extends from said outer lateral surface of the respective one of said tire retaining walls to said distal end, and a curved second surface that extends from said radial inner surface of said spoke mounting wall to said distal end.

7. The bicycle wheel rim as claimed in Claim 1, wherein each of said corner reinforcing members is formed with

a pin-receiving hole therealong.

8. The bicycle wheel rim as claimed in Claim 7, wherein each of said corner reinforcing members has an oval cross-section.

5 9. The bicycle wheel rim as claimed in Claim 8, wherein said pin-receiving hole is oval-shaped.

10 10. The bicycle wheel rim as claimed in Claim 7, wherein each of said corner reinforcing members includes internal and external wall portions that cooperate to confine said pin-receiving hole, each of said internal and external wall portions connecting the corresponding one of said left and right edges of said spoke mounting wall to said inner edge of the respective one of said tire retaining walls, said internal wall portion
15 extending laterally inward relative to said outer lateral surface of the respective one of said tire retaining walls and being disposed radially outward relative to said radial inner surface of said spoke mounting wall, said external wall portion extending
20 laterally outward relative to said outer lateral surface of the respective one of said tire retaining walls and being disposed radially inward relative to said radial inner surface of said spoke mounting wall.

25 11. The bicycle wheel rim as claimed in Claim 10, wherein said internal wall portion has a curved cross-section and said external wall portion has a generally V-shaped cross-section.